

PEALE (A.C.)

DEPARTMENT OF THE INTERIOR

UNITED STATES GEOLOGICAL SURVEY

J. W. POWELL, DIRECTOR

MINERAL WATERS IN 1892

BY

A. C. PEALE

ABSTRACT FROM "MINERAL RESOURCES OF THE UNITED STATES
CALENDAR YEAR 1892"—DAVID T. DAY, CHIEF OF THE
DIVISION OF MINING STATISTICS AND TECHNOLOGY



presented by the author

WASHINGTON

GOVERNMENT PRINTING OFFICE

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MINERAL WATERS.

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Although the list of commercial mineral springs for the year 1892 shows a slight reduction in the number of springs as compared with 1891, a much larger proportion than usual report.

The reduction amounts to 5 springs; 283 springs make up the list; of these 242 report, leaving only 41 delinquent. This has been exceeded only by the report for 1889, when 258 springs reported. The production, however, has greatly increased.

The total product for 1892, including the estimate for the delinquent springs, which is taken at one-half the figures last reported, is 21,876,604 gallons at a valuation of \$4,905,970. This is 3,483,872 gallons and \$1,909,711 more than the figures given for 1891. If we compare only the figures actually reported the increase was 5,153,702 gallons and \$1,917,287.

The North Atlantic States lose four springs from the list of 1891, but gain one, Vishnu Spring of Massachusetts, which is new to the list, leaving 71 springs instead of 74 as in 1891; of these, 65 report instead of 62, as in the previous year. There is also a gain of 1,128,970 gallons and the increased value of the product is \$341,670.

In the South Atlantic States three springs have been taken from the list and four new ones added, leaving the total of 57, which is one less than in 1891. The new springs are the Carroll Springs of Maryland and the Steep Hill Springs, the Harris Anti-dyspeptic and Tonic Spring, and the Virginia Waukesha Lithia Springs of Virginia. Forty-seven springs report, and the delinquent list for the section is 10 instead of 15, as in 1891. The increase in the production is 266,508 gallons, with a total increase in the value of the production of \$39,750.

Four springs are taken from the list for the North Central States, leaving the list at 83 instead of 87 as in 1891. However, a larger proportion of those on the list report for 1892, and there is an increase in production of 3,555,884 gallons, with an increased value of \$1,352,650.

While one spring is taken from the list for the South Central States, Louisiana appears in the list for the first time, adding one spring, the Abita Spring; and one spring, Stafford Mineral Spring, is added to the list for Mississippi, which leaves the list 38 instead of 37 as in 1891. The increase in production for 1892 is 64,529 gallons and \$3,312.

The list of springs for the Western States and Territories remains at 34, as in 1891. There is, however, an increased production of 137,813 gallons and of \$179,905 in the value of the product.

Production of mineral waters for 1892, by States and Territories.

| States and Territories. | Springs reporting. | Product. | Value. |
|-------------------------|--------------------|------------|-----------|
| <i>Gallons.</i> | | | |
| Alabama | 4 | 22,085 | \$17,517 |
| Arkansas | 4 | 36,885 | 9,907 |
| California | 11 | 336,875 | 162,019 |
| Colorado | 6 | 553,968 | 200,904 |
| Connecticut | 5 | 28,000 | 16,326 |
| Georgia | 3 | 114,000 | 30,450 |
| Illinois | 8 | 173,360 | 24,917 |
| Indiana | 7 | 115,500 | 7,400 |
| Iowa | 4 | 101,000 | 11,140 |
| Kansas | 8 | 2,135,448 | 204,448 |
| Kentucky | 3 | 37,000 | 3,700 |
| Maine | 9 | 645,172 | 106,524 |
| Maryland | 5 | 84,300 | 15,890 |
| Massachusetts | 10 | 962,882 | 119,486 |
| Michigan | 8 | 1,996,900 | 300,267 |
| Mississippi | 4 | 66,800 | 30,780 |
| Missouri | 8 | 430,000 | 44,675 |
| New Hampshire | 2 | 1,060,000 | 503,000 |
| New Mexico | 3 | 40,800 | 7,360 |
| New York | 22 | 2,528,888 | 828,516 |
| North Carolina | 7 | 183,683 | 46,296 |
| Ohio | 8 | 1,101,400 | 267,100 |
| Pennsylvania | 10 | 1,324,100 | 323,164 |
| Rhode Island | 2 | 195,000 | 8,000 |
| Tennessee | 4 | 121,374 | 20,895 |
| Texas | 12 | 405,400 | 24,535 |
| Vermont | 4 | 102,500 | 26,600 |
| Virginia | 25 | 605,532 | 246,029 |
| Washington | 2 | 140,000 | 184,000 |
| West Virginia | 6 | 35,430 | 10,528 |
| Wisconsin | 20 | 4,858,232 | 952,293 |
| Other States (a) | 8 | 895,610 | 120,478 |
| Total | 242 | 21,138,104 | 4,825,144 |

a Idaho, Louisiana, Minnesota, Montana, Nebraska, New Jersey, South Carolina, and South Dakota are included here, as only one spring in each State reports.

Production of natural mineral waters from 1883 to 1892.

| Geographical division. | Springs reporting. | Gallons sold. | Value. | Geographical division. | Springs reporting. | Gallons sold. | Value. |
|------------------------|--------------------|---------------|-----------|------------------------|--------------------|---------------|-----------|
| 1883. | | | | 1888. | | | |
| North Atlantic.... | 38 | 2,470,670 | \$282,270 | North Atlantic.... | 42 | 2,856,799 | \$247,108 |
| South Atlantic.... | 27 | 312,690 | 64,973 | South Atlantic.... | 32 | 1,689,387 | 493,489 |
| North Central.... | 37 | 1,435,809 | 323,600 | North Central.... | 38 | 2,002,373 | 325,839 |
| South Central.... | 21 | 1,441,042 | 139,973 | South Central.... | 19 | 426,410 | 71,215 |
| Western..... | 6 | 169,812 | 52,787 | Western..... | 15 | 1,853,679 | 421,651 |
| Estimated..... | 129 | 5,829,423 | 863,603 | Estimated..... | 146 | 8,828,648 | 1,559,302 |
| | 60 | 1,700,000 | 256,000 | | 52 | 750,000 | 120,000 |
| Total..... | 189 | 7,529,423 | 1,119,603 | Total..... | 198 | 9,578,648 | 1,679,302 |
| 1884. | | | | 1889. | | | |
| North Atlantic.... | 38 | 3,345,760 | 328,125 | North Atlantic.... | 60 | 4,106,464 | 471,575 |
| South Atlantic.... | 27 | 464,718 | 103,191 | South Atlantic.... | 47 | 646,239 | 198,032 |
| North Central.... | 37 | 2,070,533 | 420,515 | North Central.... | 86 | 6,137,776 | 604,238 |
| South Central.... | 21 | 1,526,817 | 147,112 | South Central.... | 33 | 500,000 | 43,356 |
| Western..... | 6 | 307,500 | 85,200 | Western..... | 32 | 1,389,992 | 431,257 |
| Estimated..... | 129 | 7,715,328 | 1,084,143 | Total..... | 258 | 12,780,471 | 1,748,458 |
| | 60 | 2,500,000 | 375,000 | 1890. | | | |
| Total..... | 189 | 10,215,328 | 1,459,143 | North Atlantic.... | 55 | 5,043,074 | 1,175,512 |
| 1885. | | | | South Atlantic.... | 39 | 647,625 | 245,760 |
| North Atlantic.... | 51 | 2,527,310 | 192,605 | North Central.... | 71 | 5,050,413 | 737,672 |
| South Atlantic.... | 32 | 908,692 | 237,153 | South Central.... | 30 | 604,571 | 81,426 |
| North Central.... | 45 | 2,925,288 | 446,211 | Western..... | 25 | 869,504 | 253,578 |
| South Central.... | 31 | 540,436 | 74,100 | Estimated..... | 220 | 12,215,187 | 2,493,948 |
| Western..... | 10 | 509,675 | 86,776 | | 53 | 1,692,231 | 106,802 |
| Estimated..... | 169 | 7,411,401 | 1,036,845 | Total..... | 273 | 13,907,418 | 2,600,750 |
| | 55 | 1,737,000 | 276,000 | 1891. | | | |
| Total..... | 224 | 9,148,401 | 1,312,845 | North Atlantic.... | 62 | 5,724,752 | 1,591,746 |
| 1886. | | | | South Atlantic.... | 41 | 796,439 | 313,443 |
| North Atlantic.... | 49 | 2,715,050 | 177,969 | North Central.... | 68 | 8,010,556 | 482,082 |
| South Atlantic.... | 38 | 720,397 | 123,517 | South Central.... | 29 | 629,015 | 106,022 |
| North Central.... | 40 | 2,048,914 | 401,861 | Western..... | 27 | 1,123,640 | 414,564 |
| South Central.... | 31 | 822,016 | 58,222 | Estimated..... | 227 | 16,284,402 | 2,907,857 |
| Western..... | 14 | 781,540 | 137,796 | | 61 | 2,108,330 | 88,402 |
| Estimated..... | 172 | 7,087,917 | 899,365 | Total..... | 288 | 18,392,732 | 2,906,259 |
| | 53 | 1,862,400 | 384,705 | 1892. | | | |
| Total..... | 225 | 8,950,317 | 1,284,070 | North Atlantic.... | 65 | 6,853,722 | 1,933,416 |
| 1887. | | | | South Atlantic.... | 47 | 1,062,945 | 353,193 |
| North Atlantic.... | 40 | 2,571,004 | 213,210 | North Central.... | 74 | 11,566,440 | 1,834,732 |
| South Atlantic.... | 34 | 614,041 | 147,149 | South Central.... | 32 | 693,544 | 109,334 |
| North Central.... | 38 | 1,480,820 | 208,217 | Western..... | 24 | 1,261,453 | 594,469 |
| South Central.... | 29 | 741,080 | 87,916 | Estimated..... | 242 | 21,438,104 | 4,825,144 |
| Western..... | 12 | 1,236,324 | 288,737 | | 41 | 438,500 | 80,826 |
| Estimated..... | 153 | 6,643,269 | 945,259 | Total..... | 283 | 21,876,604 | 4,905,970 |
| | 62 | 1,616,340 | 316,204 | | | | |
| Total..... | 215 | 8,259,609 | 1,261,463 | | | | |

Alabama.—Although Alabama loses one spring from the list of the previous year, all now on the list report sales for 1892, with a slightly increased product. The springs reporting are:

Bailey Springs, Bailey Springs, Lauderdale county.

Healing Springs, Healing Springs, Washington county.

Matchless Mineral Water, Greenville, Butler county.

Bladen Springs, Bladen Springs, Choctaw county.

Arkansas.—Only one of the Arkansas springs is delinquent for 1892. The four springs reporting are:

Arkansas Lithia Springs, Hope, Hempstead county.

Dovepark Springs, Dovepark, Hot Spring county.

Fairchild's Potash Sulphur Spring, Hot Springs, Garland county.

Eureka Springs, Eureka Springs, Carroll county.

California.—The list of springs for California remains the same as in the previous year, but only eleven of the fourteen springs report. They are as follows:

Azule Seltzer Spring, San Jose, Santa Clara county.

Bartlett Springs, Bartlett Springs, Lake county.

Castalian Mineral Water, Inyo county.

Coronado Natural Mineral Water, Coronado, San Diego county.

El Toro Springs, Nevato, Marin county.

Geyser Soda Springs, Litton Springs, Sonoma county.

Napa Soda Springs, Napa Soda Springs, Napa county.

Ojai Hot Springs, Matilija, Ventura county.

Pacific Congress Spring, Saratoga, Santa Clara county.

Tolena Springs, Fairfield, Solano county.

Tuscan Spring, Red Bluff, Tehama county.

Colorado.—Three of the Colorado springs have not sent in any reports. The six reporting for 1892 are:

Boulder Springs, Boulder Springs, Boulder county.

Clark Magnetic Mineral Spring, Pueblo, Pueblo county.

Canon City Vichy and Iron Duke Spring, Cañon City, Fremont county.

Idaho Springs, Idaho Springs, Clear Creek county.

Manitou, Navajo, and Shoshone Springs, Manitou, El Paso county.

Ute and Little Chief Iron Springs, Manitou, El Paso county.

Connecticut.—All of the springs credited to Connecticut have reported.

They are:

Aspinock Springs, Putnam Heights, Windham county.

Highland Rock Spring, Manchester, Hartford county.

Highland Tonica Spring, Highland Park, Hartford county.

Oxford Chalybeate Spring, Oxford, New Haven county.

Stafford Mineral Springs, Stafford Springs, Tolland county.

Florida.—No reports have been received from either of Florida's two commercially used springs.

Georgia.—One spring is taken from the list for Georgia. The remaining three report. They are:

Bowden Lithia Springs, Lithia Springs, Douglas county.

Hughes Springs, Rome, Floyd county.

Ponce de Leon Springs, Atlanta, Fulton county.

Idaho.—The State of Idaho is still represented on our list by only one spring, viz.:

Idanha Springs, Soda Springs, Bingham county.

Illinois.—One spring is dropped from the list for Illinois. The remaining eight springs report. They are:

Black Hawk Springs, Rock Island, Rock Island county.

Cumberland Mineral Spring, Greenup, Cumberland county.

Glen Flora Spring, Waukegan, Lake county.

Kirkwood Springs, Kirkwood, Warren county.

Peoria Magnetic Artesian Spring, Peoria, Peoria county.

Perry Springs, Perry Springs, Pike county.

Red Avon Springs, Avon, Martin county.

Sanicula Springs, Ottawa, La Salle county.

Indiana.—The State of Indiana loses two springs from the list of previous years. Of the remaining eight the following seven report:

French Lick Springs, French Lick, Orange county.

Indiana Mineral Springs, Indiana Mineral Springs, Warren county.

Kickapoo Magnetic Springs, Kickapoo, Warren county.

King's Mineral Spring, Muddy Fork, Clark county.

Lodi Artesian Well, Silverwood, Fountain county.

Magnetic Mineral Spring, Terre Haute, Vigo county.

West Baden Springs, West Baden, Orange county.

Iowa.—Four of the five springs credited to Iowa report. They are as follows:

Black Hawk Springs, Eldon, Davis county.

Colfax Mineral Water, Colfax, Jasper county.

Lake View Medical Springs, Lake View, Sac county.

Ottumwa Mineral Springs, Ottumwa, Wapello county.

Kansas.—All of the springs on the list for Kansas report. They are:

Blazing's Artesian Mineral Spring, Manhattan, Riley county.

Geuda Mineral Spring, Geuda Springs, Cowley county.

Great Spirit Spring, Cawker City, Mitchell county.

Iola Mineral Well, Iola, Allen county.

Jewell County Lithium Spring, Montrose, Jewell county.

Providence Mineral Wells, Providence, Butler county.

Topeka Mineral Wells, Topeka, Shawnee county.

Wichita Mineral Springs, Wichita, Sedgwick county.

Kentucky.—Only three of the five springs on the list for Kentucky report. These springs are:

Bedford Springs, Bedford, Trimble county.

Blue Lick Springs, Blue Lick Springs, Nicholas county.

St. Patrick's Well, Louisville, Jefferson county.

Louisiana.—For the first time this State appears on the list. The only spring the water of which, so far as known, is used commercially is:

Abita Springs, St. Tammany parish.

Maine.—The nine springs of Maine all report sales for 1892. They are:

- Barker Mill Spring, Auburn, Androscoggin county.
- Cold Bowling Spring, Steep Falls, York county.
- Crystal Springs, Auburn, Androscoggin county.
- Hartford Cold Spring, Oxford county.
- Keystone Spring, East Poland, Androscoggin county.
- Poland Spring, South Poland, Androscoggin county.
- Seal Rock Springs, Saco, York county.
- Underwood Springs, Falmouth Foreside, Cumberland county.
- Wilson Springs, Wilson Springs, Cumberland county.

Maryland.—The list for Maryland remains the same in number for 1892 as in 1891, although one spring has been taken from the list and one new to the list added. All of the springs report. They are:

- Carroll Spring, Forest Glen, Montgomery county.
- Chattolanee Mineral Springs, Baltimore county.
- Flintstone Mineral Spring, Flintstone, Allegany county.
- Strontia Mineral Spring, Brooklandville, Baltimore county.
- Takoma Park Springs, Takoma Park, Montgomery county.

Massachusetts.—One new spring is added to the list for Massachusetts, making ten in all, and all report. They are:

- Allandale Mineral Springs, West Roxbury, Suffolk county.
- Belmont Hill Spring, Everett, Middlesex county.
- Belmont Natural Spring, Belmont, Middlesex county.
- Commonwealth Mineral Spring, Waltham, Middlesex county.
- Echo Grove Spring, Lynn, Essex county.
- Everett Crystal Spring, Everett, Middlesex county.
- Sheep Rock Springs, Lowell, Middlesex county.
- Simpson Spring, South Easton, Bristol county.
- Undine Spring, Brighton District, Suffolk county.
- Vishnu Spring, Stoneham, Middlesex county.

Michigan.—The list for Michigan remains unchanged. Of the nine springs, the following eight report for 1892.

- Americanus Well, Lansing, Ingham county.
- Bethlehem Magnetic Mineral Spring, Spring Lake, Ottawa county.
- Eastman Springs, Benton Harbor, Berrien county.
- Mount Clemens Original Mineral Spring, Mount Clemens, Macombe county.

- Moorman Well, Ypsilanti, Wastenaw county.
- Salutaris Spring, Saint Clair Springs, Saint Clair county.
- Sprudel Water, Mount Clemens, Macomb county.
- Zauber Wasser, Hudson, Lenawee county.

Minnesota.—The Inglewood Springs of Minneapolis, Hennepin county, is still the only spring on the list for Minnesota.

Mississippi.—One spring is added to the list for Mississippi, making a total of four, all of which report for 1892. These are:

Brown's Wells, Brown's Wells, Copiah county.

Castalian Springs, Durant, Holmes county.

Godbolt Mineral Well, Summit, Pike county.

Stafford Mineral Springs, near Vossburg, Jasper county.

Missouri.—Eight of the ten springs credited to Missouri have made reports. They are:

B. B. Spring, Bowling Green, Pike county.

Blue Lick Springs, Blue Lick, Saline county.

Eldorado Springs, Cedar county.

Lebanon Springs, Lebanon, Laclede county.

Paris Springs, Paris Springs, Lawrence county.

Randolph Springs, Randolph Springs, Randolph county.

Reiger Springs, Lineville, Mercer county.

Sweet Springs, Sweet Springs, Saline county.

Montana.—The only spring on the list for Montana is:

Pipestone Springs, Pipestone Springs, Jefferson county.

Nebraska.—The Victoria Mineral Spring is still the only representative on our list for the State of Nebraska; it is located at New Helena, Custer county.

New Hampshire.—There is no change in the list for New Hampshire, but only two of the three springs make reports. They are:

Londonderry Lithia Spring, Londonderry, Rockingham county.

Ponemah Spring, Amherst Station, Hillsboro county.

New Jersey.—The one representative on the list for New Jersey is still the—

Kalium Springs, Collingswood, Camden county.

New Mexico.—Three of New Mexico's four springs report for 1892. They are:

Aztec Springs, Sante Fé, Sante Fé county.

Coyote Soda Springs, Coyote Canyon, Bernalillo county.

Ojo Caliente Springs, Ojo Caliente, Taos county.

New York.—Three springs have been taken from the list of 1891, leaving the total for 1892 at twenty-six; of these, twenty-two report. They are as follows:

Artesian Lithia Springs, Ballston Spa, Saratoga county.

Avon Springs, Avon, Livingston county.

Cayuga Water, Cayuga, Cayuga county.

Deep Rock Spring, Oswego, Oswego county.

Massena Spring, Massena, St. Lawrence county.

Miller's Geneva Mineral Spring, Geneva, Ontario county.

Oneida Springs, Utica, Oneida county.

Verona Springs, Verona Springs, Oneida county.

White Sulphur Springs, Sharon Springs, Schoharie county.

White Sulphur Springs, Richfield Springs, Otsego county.

Victor Springs, Darien, Genesee county.

Saratoga Springs, Saratoga county:

- Champion Spring.
- Excelsior Springs.
- Empire Spring.
- Hathorn Spring.
- Imperial Spring.
- Royal or New Putnam Spring.
- Saratoga Vichy Spring.
- Star Spring.
- Saratoga Carlsbad Spring.
- Saratoga Kissingén Spring.
- High Rock Spring.

North Carolina.—One spring is taken from the list of North Carolina, leaving the total ten; of these, seven report as follows:

Barium Springs, Barium, Iredell county.
Black Mountain Iron and Alum Spring, Black Mountain, Buncombe county.

Park's Alkaline Spring, Danville, Caswell county.

Panacea Springs, Warren county.

Seven Springs, Seven Springs, Wayne county.

Shaw's Healing Springs, Littleton, Halifax county.

Thompson's Bromine Arsenic Springs, Crumplers, Ashe county.

Ohio.—The State of Ohio loses one spring from the list of the previous year, and of the nine springs remaining the following send reports for 1892:

Adams County Mineral Spring, Mineral Springs, Adams county.

Crystal Mineral Spring, Mineral Springs, Adams county.

Devonian Mineral Spring, Lorain, Lorain county.

Electro-Magnetic Spring, Fountain Park, Champaign county.

Rex Mineral Water, New Richmond, Clermont county.

Ripley Bromo-Lithia Spring, Ripley, Brown county.

Sulphur Lick Springs, Anderson, Ross county.

Oregon.—No reports have been received from the two springs on the list for Oregon.

Pennsylvania.—Ten of the eleven springs credited to Pennsylvania have reported for 1892. They are:

Black Barren Mineral Spring, Pleasant Grove, Lancaster county.

Bedford Springs, Bedford, Bedford county.

Cresson Springs, Cresson, Cambria county.

Corry Artesian Mineral Spring, Corry, Erie county.

Eureka Springs, Saegertown Crawford county.

Barker Magnetic Mineral Spring, Gardeau, McKean county.

Pavilion Springs, Wernersville, Berks county.

Pulaski Natural Mineral Spring, Pulaski, Lawrence county.

Rosscommon Springs, Rosscommon, Monroe county.

Susquehanna Springs, Rush, Susquehanna county.

Rhode Island.—As usual both springs for Rhode Island report. They are:

Holley Mineral Springs, Woonsocket, Providence county.

O'hee Mineral and Medical Springs, Johnston, Providence county.

South Carolina.—Only one of South Carolina's three springs reports for 1892, as follows:

Garrett Springs, Spartanburg, Spartanburg county.

South Dakota.—South Dakota still holds a place on the list with one spring, viz.:

Dakota Hot Springs of Hot Springs, Fall River county.

Tennessee.—The list for Tennessee remains the same as for 1891, but of the six springs only four report for 1892. They are:

Idaho Springs, St. Bethlehem, Montgomery county.

Park and Hurricane springs, Tullahoma, Franklin county.

Red Boiling Springs, Red Boiling Springs, Macon county.

Tate Spring, Tate Spring, Grainger county.

Texas.—Twelve springs report for Texas, leaving only one delinquent. The springs reporting for 1892 are:

Capp's Well, Longview, Gregg county.

Dalby Springs, Dalby Springs, Bowie county.

Elkhart Mineral Wells, Elkhart, Anderson county.

Hynson's Iron Mountain Spring, Marshall, Harrison county.

Montvale Springs, Marshall, Harrison county.

Mineral Wells, Mineral Wells, Palo Pinto county.

Overall Mineral Well, Franklin, Robertson county.

Page's Well, Georgetown, Williamson county.

Slack's Well, Walder Depot, Fayette county.

Texas Sour Springs, Luling, Caldwell county.

Tioga Mineral Wells, Grayson county.

Wooten Wells, Wooten Wells, Robertson county.

Vermont.—The State of Vermont still has four springs on the list and all report for 1892. They are:

Alburg Springs, Alburg Springs, Grand Isle county.

Brunswick White Sulphur Springs, Brunswick, Essex county.

Clarendon Springs, Clarendon Springs, Rutland county.

Missisquoi Mineral Springs, Sheldon, Franklin county.

Virginia.—Three springs new to the list are added for Virginia, making a total of twenty-six. Of these twenty-five report. The name of the Virginia Arsenic Bromine and Lithia Spring is changed to Crockett Arsenic-Lithia Spring. The following are those that report for 1892:

Blue Ridge Springs, Botetourt county.

Buffalo Lithia Springs, Buffalo Lithia Springs, Mechlenburg county.

Chase City Chlorine Spring, Chase City, Mechlenburg county.

Cove Lithia Springs, near Wytheville, Wythe county.

Crockett Arsenic-Lithia Spring, Christiansburg, Montgomery county.

Elk Lithia Springs, Elkton, Rockingham county.
Farmville Lithia Spring, Farmville, Cumberland county.
Harris Antidyspeptic and Tonic Spring, Burkeville, Nottoway county.
Healing Springs, Healing Springs, Bath county.
Hunter's Pulaski Spring, Sassin, Pulaski county.
Jordon White Sulphur Spring, Stephenson, Frederiek county.
Massanetta Springs, Harrisburg, Rockingham county.
Otterburn Lithia Spring, Amelia Court House, Amelia county.
Osceola Springs, Harrisburg, Rockingham county.
Powhatan Mineral Spring, Powhatan, Powhatan county.
Rawley Springs, Rawley Springs, Rockingham county.
Roanoke Red Sulphur Spring, Catawba, Roanoke county.
Rockbridge Alum Springs, Goshen, Rockbridge county.
Rockingham Springs, McGaheysville, Rockingham county.
Seven Springs, Abingdon, Washington county.
Steep Hill Springs, North Staunton, Augusta county.
Shenandoah Alum Springs, Mount Jackson, Shenandoah county.
Stribling Springs, Stribling Springs, Augusta county.
Wallawhatoola Alum Springs, Millboro Springs, Bath county.
Wolf Trap Lithia Springs, Wolf Trap Station, Halifax county.
Washington.—Two of Washington's three springs report. They are:
Cascades Springs, Cascades, Skamania county.
Medical Lake, Medical Lake, Spokane county.
West Virginia.—The six springs of West Virginia are all represented in the figures for 1892. They are:
Capon Springs, Capon Springs, Hampshire county.
Irondale Springs, Independence, Preston county.
Red Sulphur Springs, Monroe county.
Salt Sulphur Springs, Salt Sulphur Springs, Monroe county.
Triplet Springs, Grant District, Pleasants county.
White Sulphur Springs, White Sulphur Springs, Greenbrier county.
Wisconsin.—Twenty springs of Wisconsin's 23 report for 1892. They are:
Allouez Magnetic Spring, Green Bay, Brown county.
Ashland Springs, Ashland, Ashland county.
Bethania Mineral Springs, Osceola, Polk county.
Darlington Mineral Water, Darlington, Lafayette county.
Fort Crawford Springs, Prairie du Chien, Crawford county.
Lebens Wasser, Green Bay, Brown county.
Nee-Ska-Ra Spring, Wauwatosa, Waukesha county.
Palmyra Spring, Palmyra Spring, Jefferson county.
Salvator Springs, Green Bay, Brown county.
Sheboygan Spring, Sheboygan, Sheboygan county.
Silver Sand Spring, Milwaukee, Milwaukee county.
Vita Mineral Spring, Beaver Dam, Dodge county.

Waukesha Springs, Waukesha county:

Almanaris Spring.
 Arcadian Spring.
 Bethesda Mineral Spring.
 Horeb Spring.
 Henk Mineral Spring.
 Mineral Rock Spring.
 Waukesha Hygeia Mineral Spring.
 White Rock Mineral Spring.

Summary of reports of mineral springs for 1892, by States and Territories.

| States and Territories. | Spring report-ing. | Spring not re-porting. | Total used com-mercially. | States and Territories. | Spring report-ing. | Spring not re-porting. | Total used com-mercially. |
|-------------------------------|--------------------|------------------------|---------------------------|--|--------------------|------------------------|---------------------------|
| NORTH ATLANTIC STATES. | | | | | | | |
| Maine..... | 9 | 0 | 9 | Ohio | 8 | 1 | 9 |
| New Hampshire | 2 | 1 | 3 | Indiana | 7 | 1 | 8 |
| Vermont | 4 | 0 | 4 | Illinois | 8 | 0 | 8 |
| Massachusetts | 10 | 0 | 10 | Michigan | 8 | 1 | 9 |
| Rhode Island | 2 | 0 | 2 | Wisconsin | 20 | 3 | 23 |
| Connecticut | 5 | 0 | 5 | Minnesota | 1 | 0 | 1 |
| New York | 22 | 4 | 26 | Iowa | 4 | 1 | 5 |
| New Jersey | 1 | 0 | 1 | Missouri | 8 | 2 | 10 |
| Pennsylvania | 10 | 1 | 11 | North Dakota | 0 | 0 | 0 |
| SOUTH ATLANTIC STATES. | | | | | | | |
| Delaware | 0 | 0 | 0 | South Dakota | 1 | 0 | 1 |
| Maryland | 5 | 0 | 5 | Nebraska | 1 | 0 | 1 |
| District of Columbia | 0 | 0 | 0 | Kansas | 8 | 0 | 8 |
| Virginia | 25 | 3 | 28 | WESTERN STATES AND TER- RITORIES. | | | |
| West Virginia | 6 | 0 | 6 | Alaska | 0 | 0 | 0 |
| North Carolina | 7 | 3 | 10 | Wyoming | 0 | 0 | 0 |
| South Carolina | 1 | 2 | 3 | Montana | 1 | 0 | 1 |
| Georgia | 3 | 0 | 3 | Colorado | 6 | 3 | 9 |
| Florida | 0 | 2 | 2 | New Mexico | 3 | 1 | 4 |
| SOUTH CENTRAL STATES. | | | | | | | |
| Kentucky | 3 | 2 | 5 | Arizona | 0 | 0 | 0 |
| Tennessee | 4 | 2 | 6 | Utah | 0 | 0 | 0 |
| Alabama | 4 | 0 | 4 | Nevada | 0 | 0 | 0 |
| Mississippi | 4 | 0 | 4 | Idaho | 1 | 0 | 1 |
| Louisiana | 1 | 0 | 1 | Washington | 2 | 1 | 3 |
| Texas | 12 | 1 | 13 | Oregon | 0 | 2 | 2 |
| Indian Territory | 0 | 0 | 0 | California | 11 | 3 | 14 |
| Arkansas | 4 | 1 | 5 | Total..... | 242 | 41 | 383 |
| Oklahoma | 0 | 0 | 0 | | | | |

IMPORTS AND EXPORTS.

Imports.—Prior to 1884 the Treasury Department did not distinguish natural mineral waters from those that were artificial; since 1883 the distinction has been made, but the artificial waters have not been classified according to the receptacles in which they have been imported. The importation is shown in the two tables following, with a table of exports appended:

Mineral waters imported and entered for consumption in the United States, 1867 to 1883, inclusive.

| Fiscal years ending June 30— | In bottles of 1 quart or less. | | In bottles in ex- cess of 1 quart. | | Not in bottles. | | All, not artificial. | | Total value. |
|------------------------------------|-----------------------------------|----------|---------------------------------------|--------|-----------------|--------|----------------------|----------|-----------------|
| | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | |
| | <i>Bottles.</i> | | <i>Quarts.</i> | | <i>Gallons.</i> | | <i>Gallons.</i> | | |
| 1867 | 370,610 | \$24,913 | 3,792 | \$360 | | \$137 | | | \$25,410 |
| 1868 | 241,702 | 18,438 | 22,819 | 2,052 | 554 | 104 | | | 20,594 |
| 1869 | 344,691 | 25,635 | 9,739 | 802 | 1,042 | 245 | | | 26,082 |
| 1870 | 433,212 | 30,680 | 18,025 | 1,743 | 2,063 | 508 | | | 32,931 |
| 1871 | 470,947 | 34,604 | 2,320 | 174 | 1,336 | 141 | | | 34,919 |
| 1872 | 892,913 | 67,951 | | | 639 | 116 | | | 68,067 |
| 1873 | 35,508 | 2,326 | | | 355 | 75 | 394,423 | \$98,151 | 100,552 |
| 1874 | 7,238 | 691 | | | 95 | 16 | 199,035 | 79,789 | 80,496 |
| 1875 | 4,174 | 471 | | | 5 | 2 | 395,956 | 101,640 | 102,113 |
| 1876 | 25,758 | 1,899 | | | | | 447,648 | 134,889 | 136,788 |
| 1877 | 12,965 | 1,328 | | | | | 520,751 | 167,458 | 168,808 |
| 1878 | 8,229 | 815 | | | | | 883,674 | 350,912 | 351,727 |
| 1879 | 28,440 | 2,352 | | | 3 | 4 | 798,107 | 282,153 | 284,509 |
| 1880 | 207,554 | 19,731 | | | | | 927,759 | 285,798 | 305,529 |
| 1881 | 150,326 | 11,850 | | | 55 | 26 | 1,225,462 | 383,616 | 395,492 |
| 1882 | 152,277 | 17,010 | | | | | 1,542,905 | 410,105 | 427,115 |
| 1883 | 88,497 | 7,054 | | | | | 1,714,085 | 441,439 | 448,493 |

Imports for years 1884 to 1892.

| Years ended. | Artificial mineral waters. | | Natural mineral waters. | |
|---------------|-------------------------------|---------|----------------------------|-----------|
| | Gallons. | Value. | Gallons. | Value. |
| June 30, 1884 | 29,366 | \$4,591 | 1,505,298 | \$362,651 |
| 1885 | 7,972 | 2,157 | 1,660,072 | 397,875 |
| Dec. 31, 1886 | 62,464 | 16,815 | 1,618,960 | 354,242 |
| 1887 | 13,885 | 4,851 | 1,915,511 | 385,906 |
| 1888 | 12,752 | 4,411 | 1,716,461 | 341,695 |
| 1889 | 36,494 | 8,771 | 1,558,968 | 368,661 |
| 1890 | 22,328 | 7,133 | 2,322,008 | 433,281 |
| 1891 | 26,700 | 8,700 | 2,019,833 | 392,894 |
| 1892 | 16,052 | 9,089 | 2,266,123 | 497,660 |

Exports of natural mineral waters, of domestic production, from the United States.

| Fiscal year ending June 30— | Value. | Fiscal year ending June 30— | Value. |
|-----------------------------|--------|-----------------------------|--------|
| 1875 | \$162 | 1881 | |
| 1876 | 80 | 1882 | |
| 1879 | 1,529 | 1883 | |
| 1880 | 1,486 | | |

a None reported since 1883.

